

=> d his

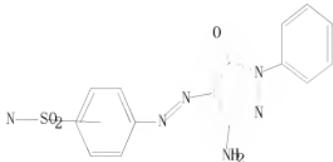
(FILE 'HOME' ENTERED AT 15:05:08 ON 25 MAR 2008)

FILE 'REGISTRY' ENTERED AT 15:05:21 ON 25 MAR 2008  
STRUCTURE UPLOADED

L1                   0 S L1  
L2                   4 S L1 FULL  
L3                   4 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:05:54 ON 25 MAR 2008  
L4                   3 S L3

=> d que l4 stat  
L1                   STR



Structure attributes must be viewed using STN Express query preparation.

L3                   4 SEA FILE=REGISTRY SSS FUL L1  
L4                   3 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-3 ibib iabs hitstr

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 20051221166 CAPLUS

DOCUMENT NUMBER: 143:478708

TITLE: Pyrazolinone colorant-containing curable composition,  
color filter using the composition, and method for  
manufacturing the same

INVENTOR(S): Araki, Katsumi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 25 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

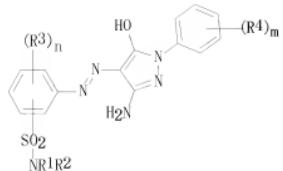
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005253119	A1	20051117	US 2005-95515	20050401
US 7276548	B2	20071002		
JP 2006003873	A	20060105	JP 2005-106443	20050401
KR 2006045445	A	20060517	KR 2005-27687	20050401
US 2008014536	A1	20080117	US 2007-778172	20070716
US 2008021223	A1	20080124	US 2007-778159	20070716
PRIORITY APPLN. INFO. :			JP 2004-110469	A 20040402
			JP 2004-146659	A 20040517
			US 2005-95515	A3 20050401

OTHER SOURCE(S): MARPAT 143:478708  
GRAPHIC IMAGE:

**ABSTRACT:**

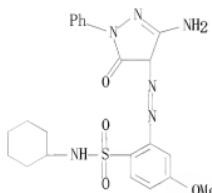
The present invention provides a colorant-containing curable composition comprising a colorant, wherein the colorant contains a compound represented by I. In I, R1 and R2 each independently represent H, an alkyl group, an alkenyl group, an aryl group, or an aralkyl group. R1 and R2 may be formed into a heterocycle together with a jointly bonded nitrogen atom. R3 represents a halogen atom, a trihalomethyl group, an alkoxy group, a nitro group, or an amino group. n represents an integer of 0 to 4. R4 represents a halogen atom or a —SOM group, in which M represents H, a cation of a metallic atom, or a cation consisting of a nitrogen-containing compound. m represents an integer of 0 to 5. The present invention further provides a color filter comprising I and a method for manufacturing the color filter.

IT 865696-49-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(pyrazolinone colorant-containing curable composition, color filter using the composition, and method for manufacturing the same)

RN 865696-49-7 CAPLUS

CN Benzenesulfonamide, 2-[{3-amino-4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-4-yl}azo]-N-cyclohexyl-4-methoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:1048764 CAPLUS  
DOCUMENT NUMBER: 143:348673  
TITLE: Azo compounds as dyes  
INVENTOR(S): Araki, Katsumi  
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.

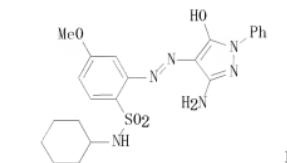
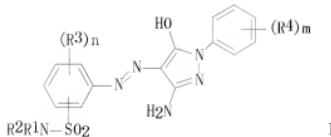
KIND DATE

APPLICATION NO.

DATE

JP 2005263925 WO 2005090483	A A1	20050929 20050929	JP 2004-76924 WO 2004-JP16014	20040317 20041028
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1739134 R: DE, GB	A1	20070103	EP 2004-793122	20041028
CN 1926196 US 2007213515	A A1	20070307 20070913	CN 2004-80042469 US 2007-593284 JP 2004-76924 WO 2004-JP16014	20041028 20070510 A 20040317 W 20041028
PRIORITY APPLN. INFO. :				

OTHER SOURCE(S) : MARPAT 143:348673  
GRAPHIC IMAGE:



#### ABSTRACT:

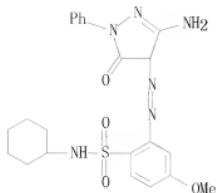
Provided is azo compds. having high heat and light resistance, (I), wherein R1-2 = H, C1-21 alkyl, C2-21 alkenyl, C6-21 aryl, C7-21 aralkyl, R3 = halogen atom, trihalomethyl, C1-21 alkoxyl, nitro, amino, R4 = halogen, -SO3M, M = metal cation, N-containing cation, m = 0-5 integer, n = 0-4 integer. Thus, cyclohexylamine was reacted with 4-methoxy-2-nitrobenzenesulfonyl chloride, reduced with Fe, and reacted with 3-amino-1-phenyl-2-pyrazoline-5-one to receive an azo compound (II).

IT 865696-49-7P 865696-50-OP 865696-51-IP

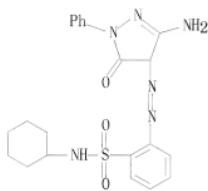
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(azo compds. as dyes)

RN 865696-49-7 CAPLUS

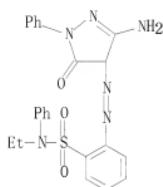
CN Benzenesulfonamide, 2-[3-amino-4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-N-cyclohexyl-4-methoxy- (9CI) (CA INDEX NAME)



RN 865696-50-0 CAPLUS  
 CN Benzenesulfonamide, 2-[3-amino-4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-N-cyclohexyl- (9CI) (CA INDEX NAME)



RN 865696-51-1 CAPLUS  
 CN Benzenesulfonamide, 2-[3-amino-4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-N-ethyl-N-phenyl- (9CI) (CA INDEX NAME)

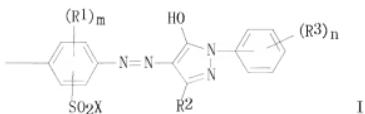


L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005179405 CAPLUS  
 DOCUMENT NUMBER: 142269524  
 TITLE: Dye-containing negative-working curable compositions  
           for color filters and their manufacture  
 INVENTOR(S): Takakuwa, Hideki  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2005055585  
PRIORITY APPLN. INFO. :  
GRAPHIC IMAGE:

A 20050303 JP 2003-284891 20030801  
JP 2003-284891 20030801

**ABSTRACT:**

The compns. comprise CO<sub>2</sub>H-containing alkali-soluble binders, organic solvent-soluble dyes I (R<sub>1</sub>, R<sub>3</sub> = H, halo, alkyl, cycloalkyl, alkenyl, aralkyl, aryl, heterocyclic, cyano, OH, CO<sub>2</sub>H, nitro, amino, alkylamino, alkoxy, aryloxy, amido, arylamino, ureido, alkylthio, arylthio, alkoxy carbonylamino, carbamoyl, alkoxy carbonyl, heterocycloxy, aryloxy, carbamoyloxy, aryloxycarbonyl, aryloxycarbonylamino, imido, heterocyclothio, sulfonic acid or its salt, phosphoryl, acyl; R<sub>2</sub> = H, alkyl, cycloalkyl, aryl; m = 0-3; n = 0-5; X = NH<sub>4</sub>, NR<sub>5</sub>R<sub>6</sub>, NW; W forms ring with N; W = N-containing heterocyclic ring or its condensed ring-forming atoms with other ring; R<sub>4</sub>-R<sub>6</sub> = alkyl, cycloalkyl, aryl, heterocyclic), and photopolymer initiators. The color filters for liquid crystal displays, CCD, etc., are manufactured by applying the compns. on supports, light-exposing through masks, and developing to have patterned images. The compns. prevent elution of the dyes of exposed parts to developing solns., have high resistance to light, heat, and solvents, and give patterned images with high resolution

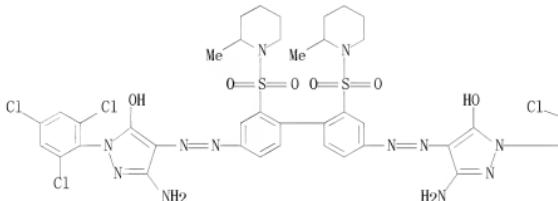
IT 846606-86-8

RL: TEM (Technical or engineered material use); USES (Uses)  
(dye; dye-containing neg.-working curable compns. for color filters and their manufacture)

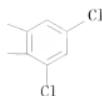
RN 846606-86-8 CAPLUS

CN Piperidine, 1, 1'-[[[4, 4'-bis[[3-amino-4, 5-dihydro-5-oxo-1-(2, 4, 6-trichlorophenyl)-1H-pyrazol-4-yl]azo][1, 1'-biphenyl]-2, 2'-diyl]bis(sulfonyl)]bis[2-methyl- (9Cl) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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 L5 79 SEA FILE=CAPLUS ABB=ON PLU=ON "ARAKI KATSUMI"/AU  
 L6 11 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND (AZO OR MONOAZO)

=> d 1-11 bib abs

L6 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2006:1181067 CAPLUS

DN 145:497617

T1 Photosensitive composition, color filter, and its production method

IN Takakuwa, Hideki; Araki, Katsumi; Mizukawa, Yuki

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 32pp.

CODEN: USXAC0

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	US 2006251976	A1	20061109	US 2006-401855	20060412
	JP 2006317893	A	20061124	JP 2005-252023	20050831
	KR 2006108241	A	20061017	KR 2006-33129	20060412
PRA1	JP 2005-114894	A	20050412		
	JP 2005-252023	A	20050831		

AB A photosensitive composition containing at least an organic-solvent-soluble dye, wherein the solid content of the organic-solvent-soluble dye is 50% by weight or higher based on the total weight of the solid content of the photosensitive composition, and the organic-solvent-soluble dye comprises at least one di- or higher-valent metal salt of an azo dye.

L6 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2006:1005825 CAPLUS

DN 145:378263

T1 Pyridone azo compound or its tautomer-containing polymers with good heat resistance, light fastness, and solubility for curable compositions and color filters

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO PCT Int. Appl., 91pp.

CODEN: PIXXDZ

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006101211	A1	20060928	WO 2006-JP306023	20060324
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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ,  
 LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,  
 NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,  
 SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,  
 YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

JP 2006265495 A 20061005 JP 2005-89598 20050325  
 JP 2006267923 A 20061005 JP 2005-89599 20050325  
 KR 2007116154 A 20071206 KR 2007-724577 20071025  
 PRAI JP 2005-89598 A 20050325  
 JP 2005-89599 A 20050325  
 WO 2006-JP306023 W 20060324

AB Title pyridone azo compound or its tautomer-containing polymers having structural units [CH2CR6(C:00R5R7)] are useful for curable compns, with good molar extinction coefficient and color value of dye, light fastness, heat resistance, and pattern-forming properties (developability), and no color mixing and no color omission in the manufacturing process, wherein R5 = (un)substituted divalent connecting group; R6 = H or methyl; and R7 pyridone azo structure-containing group. Thus, 16.72 g 2-(2-aminoethoxy)-ethanol and 33.24 g 4-nitrobenzenesulfonyl chloride were reacted at 70° for 1 h in the presence of 7.95 g potassium carbonate, the resulting N-[2-(2-hydroxyethoxyethyl]-4-nitro-benzenesulfonamide was reduced, diazotized, reacted with 1-(2-ethylhexyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinacarbonitrile, esterified with methacrylic acid to give 4-[[5-cyano-1-(2-ethylhexyl)-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-N-[2-(methacryloyloxyethoxyethyl]-benzenesulfonamide, 7.00 g of which was polymerized in the presence of 0.1167 g V 60 at 80° for 6 h to give a polymer containing a pyridone azo structure with Mn 48,000 and polydispersity 3.02, 0.6 g of which was formulated into a resist, applied on a primer-coated glass substrate, dried at 120° for 120 s, patterned through a photomask, developed, and washed to give a test piece, showing good developability and heat and light resistance.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2006:463537 CAPLUS

DN 144:477952

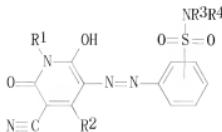
TI Pyridone azo dyes and their tautomers with excellent heat and light resistance and solubility in water and organic solvents, patternable curable compositions containing them, and manufacture of color filters using them

IN Araki, Katsumi; Aizawa, Taeko  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 59 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006124634	A	20060518	JP 2005-71994	20050314
	US 2006293405	A1	20061228	US 2005-177302	20050711
	US 7193068	B2	20070320		
PRAI	JP 2004-203117	A	20040709		
	JP 2004-212240	A	20040720		
	JP 2004-288935	A	20040930		
	JP 2004-288937	A	20040930		
	JP 2005-71994	A	20050314		

OS MARPAT 144:477952  
GI



I

AB The dyes are depicted as I (R1,3,4 = H, C1-21 alkyl, alkenyl, aryl, or aralkyl, hetero atom-containing substituent; R3 and R4 may form heterocycle with N; R2 = C1-10 alkyl, methoxymethyl, trifluoromethyl), thus giving good developability to the compns., useful for ink-jet inks, liquid crystal displays, plasma display panels, and solid-state image sensors (e.g., CCD, CMOS).

L6 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2005:1074214 CAPLUS

DN 143:348675

TI Azo compounds with good heat and light resistance for dyes

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

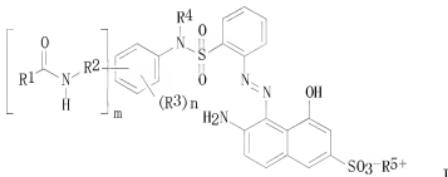
CODEN: JKXXAF

DT Patent

LA Japanese

FAN, CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005272789	A	20051006	JP 2004-108961	20040401
PRAI	JP 2003-97799	A	20030401		
	JP 2004-51343	A	20040226		
OS	MARPAT 143:348675				
GI					



AB Title compds. comprise azo compds. I (R1 = C1-21 alkyl, C1-10 perfluoroalkyl, C2-21 alkenyl, C1-21 aryl, aralkyl, alkylamino, aralkylamino, or arylamino, methacryloylamino, ethoxycarbonylamino; R2 = single bond, CH2, CH2CH2, CH2CH2CH2CH2; R3 = H, C1-21 alkyl, halo, OH, C1-21 alkoxy; R4 = C1-21 alkyl, C2-21 alkenyl, C1-21 aryl or aralkyl; R5 = H, metal, N-containing compound; m = 1-2; n = 0-4). The compds. show good solubility for water and organic solvents. Thus, I (R1 = H, R2 = single bond, R3 = H, R4 = cyclohexyl, R5 = Na, m = 1) was obtained from

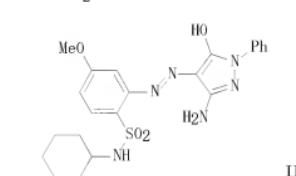
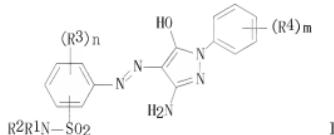
## p-aminoacetanilide and cyclohexylmethyl bromide.

L6 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:1048764 CAPLUS  
 DN 143:348673  
 TI Azo compounds as dyes  
 IN Araki, Katsumi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

PAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005263925	A	20050929	JP 2004-76924	20040317
	WO 2005090483	A1	20050929	WO 2004-JP16014	20041028
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1739134	A1	20070103	EP 2004-793122	20041028
	R: DE, GB				
CN 1926196	A	20070307	CN 2004-80042469	20041028	
US 2007213515	A1	20070913	US 2007-593284	20070510	
PRAI JP 2004-76924	A	20040317			
WO 2004-JP16014	W	20041028			
OS MARPAT 143:348673					
GI					



AB Provided is azo compds. having high heat and light resistance, (I), wherein R1 = 2 = H, C1-21 alkyl, C2-21 alkenyl, C6-21 aryl, C7-21 aralkyl, R3 = halogen atom, trihalomethyl, C1-21 alkoxy, nitro, amino, R4 = halogen, -SO3M, M = metal cation, N-containing cation, m = 0-5 integer, n = 0-4 integer. Thus, cyclohexylamine was reacted with 4-methoxy-2-nitrobenzenesulfonyl chloride, reduced with Fe, and reacted with

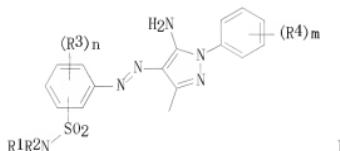
3-amino-1-phenyl-2-pyrazoline-5-one to receive an azo compound (II).

L6 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:259698 CAPLUS  
 DN 142:318286  
 TI Novel azo dyes, azo dye-containing curable composition, and color filter and method of producing the same  
 IN Araki, Katsumi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO U.S. Pat. Appl. Publ., 33 pp.  
 CODEN: USXXCO

DT Patent  
 LA English

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005065246	A1	20050324	US 2004-941910	20040916
	JP 2005290351	A	20051020	JP 2004-212241	20040720
PRAI	JP 2003-325961	A	20030918		
	JP 2003-386541	A	20031117		
	JP 2004-60988	A	20040304		
	JP 2004-71307	A	20040312		
OS	CASREACT 142:318286; MARPAT 142:318286				
GI					



AB The invention provides azo dyes, curable compns. comprising these azo dyes superior in the light-fastness and heat resistance of a dye, pattern-forming characteristics (developing characteristics) and liquid preserving characteristics, color filters using the curable composition and a method of producing the color filters. Particularly, the azo dye is based on compds. represented by I; wherein R1 and R2 resp. represent a hydrogen atom, an alkyl group having 1 to 21 carbon atoms, an alkenyl group having 2 to 21 carbon atoms, an aryl group having 6 to 21 carbon atoms or an aralkyl group having 7 to 21 carbon atoms and R1 and R2 may form a hetero ring with nitrogen atoms bonded therewith; R3 represents a halogen atom, a trihalomethyl group, an alkoxy group having 1 to 21 carbon atoms or a nitro group; R4 represents a halogen atom or a SO3M group; M represents a metal atom cation or a cation comprising a nitrogen-containing compound; m denotes an integer from 0 to 5; and n denotes an integer from 0 to 4.

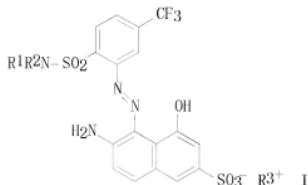
L6 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:235198 CAPLUS  
 DN 142:281530

TI Azo dyes showing good heat and light resistance, and water and solvent solubility

IN Araki, Katsumi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005068264	A	20050317	JP 2003-298381	20030822
PRAI	JP 2003-298381		20030822		
OS	MARPAT 142:281530				
GI					



AB The azo dyes are 5-(2-aminoethyl-5-trifluoromethylphenylazo)-6-amino-4-hydroxynaphthalenesulfonic acids I (R1, R2 = H, C1-21 alkyl, C2-21 alkenyl, C6-21 aryl, C7-21 aralkyl; R1R2 may form ring with N; R3<sup>+</sup> = H, metal cation, N-containing cation). Thus, I (R1 = Ph, R2 = Et, R3 = Na) was manufactured from 2-nitro-4-trifluoromethylbenzenesulfonyl chloride in three steps.

L6 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2005-231721 CAPLUS

DN 142:281529

TI Azo dyes showing good heat and light resistance, and water and solvent solubility

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 25 pp.

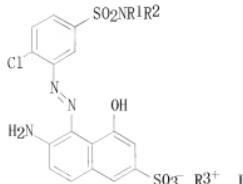
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DT Patent

LA Japanese

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005068270	A	20050317	JP 2003-298555	20030822
PRAI	JP 2003-298555		20030822		
OS	MARPAT 142:281529				
GI					



AB The azo dyes are 5-(2-chloro-5-amino sulfonylphenylazo)-6-amino-4-hydroxynaphthalenesulfonic acids I (R<sub>1</sub>, R<sub>2</sub> = H, C1-21 alkyl, C2-21 alkenyl, C6-21 aryl, C7-21 aralkyl; R<sub>1</sub>R<sub>2</sub> may form ring with N; R<sub>3</sub><sup>+</sup> = H, metal cation, N-containing cation). Thus, I (R<sub>1</sub> = Ph, R<sub>2</sub> = H, R<sub>3</sub> = Na) was manufactured from 3-nitro-4-chlorobenzenesulfonyl chloride in three steps.

L6 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:160862 CAPLUS

DN 142:241789

TI Colorant-containing curable compositions for color filters with good heat resistance and light fastness property

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 25 pp.

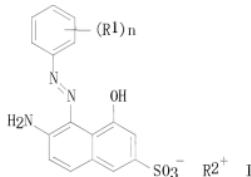
CODEN: USXXCO

DT Patent

LA English

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005043452	A1	20050224	US 2004-920254	20040818
	JP 2005189792	A	20050714	JP 2004-51642	20040226
PRAI	JP 2003-297080	A	20030821		
	JP 2003-407488	A	20031205		
	JP 2004-51642	A	20040226		
OS	MARPAT 142:241789				
GI					



AB Title compns. includes a colorant of a metal salt having a di-valence or higher valence. The colorant is preferably a colorant of the compound I, wherein R<sub>1</sub> = H, C1-21 alkyl or alkoxy group, or electron-attractive group; R<sub>2</sub> = cation having a charge equal to 1 valence of a cation of a metal atom having ≥2 valence; and n = 0-5 integer. Thus, 7.00 g N-(4-aminophenyl)amide and 8.54 g cyclohexylmethyl bromide were reacted, reacted with o-nitrobenzenesulfonyl chloride, reduced, reacted with sodium 6-amino-4-hydroxy-2-naphthalenesulfonate, and magnesium sulfate was added therein to give a colorant, 0.6 g of which was mixed with 9.4 g a resist solution comprising propylene glycol monomethyl ether acetate 19.20, Et lactate 30.00, cyclohexanone 6.67, 41% allyl methacrylate-methacrylic acid copolymer solution 30.51, dipentaerythritol hexaacrylate 12.20, p-methoxyphenol 0.0075, fluorosurfactant 0.95, and photoinitiator 0.600 parts, applied on a undercoat-coated glass substrate, prebaked at 120° for 120 s, irradiated through a mask, developed, and washed to give a test piece with good heat resistance and light fastness property.

L6 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:158310 CAPLUS

DN 142:248694

TI Colorant-containing curable compositions for manufacture of color filters

IN Araki, Katsumi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

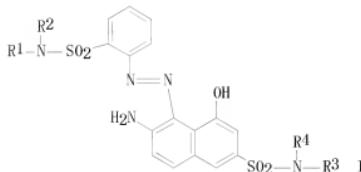
DT Patent

LA Japanese

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005049606	A	20050224	JP 2003-281459	20030729
PRAI	JP 2003-281459		20030729		
OS	MARPAT 142:248694				

GI



AB The compns., useful for color filters of liquid crystal displays, solid-state image pickup devices, comprise binders and colorants containing I (R<sub>1</sub>-R<sub>4</sub> = H, C<sub>1</sub>-21 alkyl, C<sub>2</sub>-21 alkenyl, C<sub>6</sub>-21 aryl, C<sub>7</sub>-21 aralkyl; R<sub>1</sub> and R<sub>2</sub> and/or R<sub>3</sub> and R<sub>4</sub> may form heterocyclic ring with connected N). The compns. give precise patterns showing good heat, light, and solvent resistance.

L6 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:904151 CAPLUS

DN 141:372906

TI Coloring material-containing curable compositions with good developability and heat and light resistance for color filters and their production method

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 48 pp.

CODEN: JKXXAF

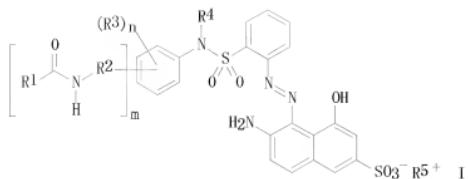
DT Patent

LA Japanese

FAN, CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004300371	A	20041028	JP 2003-97800	20030401
	US 2004260075	A1	20041223	US 2004-813622	20040331
	US 6987174	B2	20060117		
	KR 2004088390	A	20041016	KR 2004-22510	20040401
PRAI	JP 2003-97799	A	20030401		
	JP 2003-97800	A	20030401		
OS	MARPAT 141:372906				

GI



**AB** Title compns. comprise binders and azo compound colorants I, wherein R1 = C1-21 alkyl, aryl, aralkyl, alkylamino, aralkylamino, or ethoxylamino, C1-10 perfluoroalkyl, C2-21 alkenyl, methacryloylamino, or ethoxycarbonylamino; R2 = single bond, CH2, CH2CH2, CH2CH2CH2, or CH2CH2CH2CH2; R3 = H, C1-21 alkyl or alkoxy, halogen atom, or OH; R4 = H, C1-21 alkyl, aryl, or aralkyl, or C2-21 alkenyl; R5 = H, cationic metal atom, nitrogen-containing cationic compound; m = 0-2 integer; and n = 0-4 integer. Thus, 9.4 parts a resist solution comprising propylene glycol monomethyl ether acetate 19.20, Et lactide 36.67, 41% allyl methacrylate-methacrylic acid copolymer solution 30.51, dipentaerythritol hexaacrylate 12.20, p-methoxyphenol 0.0061, F 475 fluorosurfactant 0.83, and 2-(o-benzoylexim)-1-[4-(phenylthio)phenyl]-1,2-octanedione 0.586 parts and 0.6 parts azo compound were mixed, applied on a primer-coated glass substrate, prebaked at 120° for 120 s, irradiated through a mask, developed, and washed to give a test piece with good developability and heat and light resistance.

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